

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/057434 A3

(51) International Patent Classification⁷: **G06F 1/00**

(21) International Application Number:
PCT/GB2003/005632

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0229759.6 20 December 2002 (20.12.2002) GB

(71) Applicant (for all designated States except US): **BE-CRYPT LIMITED** [GB/GB]; 56 Dawlish Avenue, Palmers Green, London N13 4HP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PARSONS, Bernard** [GB/GB]; 56 Dawlish Avenue, Palmers Green, London N13 4HP (GB). **PARROTT, Gordon** [GB/GB]; 20 Commons Lane, Kimpton, Hitchin, Herts SG4 8QG (GB).

(74) Agent: **WILLIAMS POWELL**; Morley House, 26-30 Holborn Viaduct, London EC1A 2BP (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

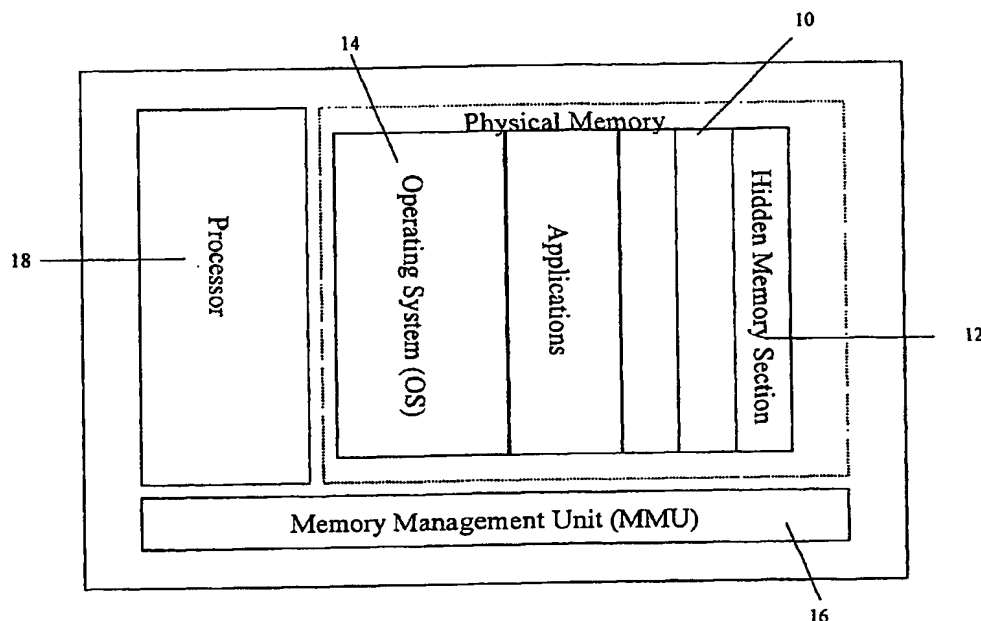
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
23 September 2004

[Continued on next page]

(54) Title: ACCESS CONTROL TO A MEMORY PORTION, THE MEMORY PORTION BEING CONCEALED FROM OPERATING SYSTEM



(57) Abstract: A security system and method are disclosed that are particularly suitable for a portable electronic device having a memory. The security system interacts with the electronic device to acquire at least a portion of the memory of the electronic device, and controls access to the acquired memory independently of an operating system of the electronic device. The acquired protected memory may be used for storing encryption/decryption key or key(s) for an encryption system.

WO 2004/057434 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/05632

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 01/23987 A (DAN RAZ ; ELAZAR GIDI (IL); HARKABI DAN (IL); MORAN DOV (IL); MILSY) 5 April 2001 (2001-04-05) the whole document | 1-22 |
| X | US 6 243 809 B1 (GIBBONS PATRICK L ET AL) 5 June 2001 (2001-06-05) the whole document | 1-22 |
| X | US 6 115 819 A (ANDERSON MARK STEPHEN) 5 September 2000 (2000-09-05) the whole document | 1-22 |
| X | US 5 606 315 A (GASKINS RONALD E) 25 February 1997 (1997-02-25) the whole document | 1-22 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

6 May 2004

Date of mailing of the international search report

10/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Harms, C

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/05632

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|----------------------------|---------------------|
| WO 0123987 | A | 05-04-2001 | US 6324537 B1 | 27-11-2001 |
| | | | US 6539380 B1 | 25-03-2003 |
| | | | AU 7037600 A | 30-04-2001 |
| | | | AU 7712300 A | 30-04-2001 |
| | | | CN 1377481 T | 30-10-2002 |
| | | | EP 1089156 A2 | 04-04-2001 |
| | | | EP 1224521 A1 | 24-07-2002 |
| | | | WO 0123987 A1 | 05-04-2001 |
| | | | JP 2001160002 A | 12-06-2001 |
| | | | JP 2003510714 T | 18-03-2003 |
| | | | TW 473664 B | 21-01-2002 |
| | | | WO 0124054 A1 | 05-04-2001 |
| US 6243809 | B1 | 05-06-2001 | NONE | |
| US 6115819 | A | 05-09-2000 | AU 700279 B2 | 24-12-1998 |
| | | | AU 2440995 A | 21-12-1995 |
| | | | WO 9533239 A1 | 07-12-1995 |
| | | | CA 2191331 A1 | 07-12-1995 |
| | | | EP 0760978 A1 | 12-03-1997 |
| US 5606315 | A | 25-02-1997 | NONE | |